



UNIVERSITY OF  
**ILLINOIS**  
SPRINGFIELD

## **Oakton College and University of Illinois Springfield**

Medical Laboratory Technology AAS to Medical Laboratory Science BS

### **Articulation Pathway Partnership**

The following documents are a proposal to students who wish to complete their AAS in MLT at Oakton College to then continue on to UIS for their BS in MLS. The articulation pathway can be completed online or on campus, whichever modality is best for the student. All coursework and structure has been approved by the departments at both Oakton College and University of Illinois Springfield.

The first two pages of the document following this cover sheet are a side by side of the whole curriculum broken out by semester. An AAS does not guarantee all general education requirements are met for Bachelor's degree completion. The second page lists prerequisites for some courses at UIS that are not fulfilled at Oakton as well as those general education courses that are not fulfilled at Oakton. These courses are listed separately to allow flexibility for the student to take them however is best for them. Whether that is at Oakton College, via CLEP (College Level Examination Program), or at UIS. This will not hinder a student's time or ability to complete their AAS at Oakton College, but they are needed for BS completion at UIS.

The second two pages are a more detailed view of the program, still in the semester-by-semester structure. One page is coursework taken at Oakton College for the AAS and how those courses translate/transfer to UIS courses. The second page is coursework taken at UIS for the BS and the remaining courses needed for BS completion as mentioned prior. Again, these courses are not needed to complete the AAS at Oakton, but are needed for BS completion at UIS.

For questions, please see the below contacts:

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# Oakton College and University of Illinois Springfield

## Medical Laboratory Technology

### Associate in Applied Science



# Oakton College

| Course | Course Title | HRS |
|--------|--------------|-----|
|--------|--------------|-----|

"^" Indicates fulfillment of UIS MLS Prerequisite Course.

#### First Oakton Coll. Semester Preferred Coursework (Fall)

|          |                                                                                                         |   |
|----------|---------------------------------------------------------------------------------------------------------|---|
| MLT 105  | Introduction to Health Care Issues                                                                      | 1 |
| MLT 106  | Basic Skills in Medical Laboratory Tech.                                                                | 2 |
| MLT 111  | Hematology                                                                                              | 4 |
| MLT 112  | Urinalysis and Body Fluids                                                                              | 2 |
| BIO 231^ | Human Anatomy and Physiology I<br>(fulfills BIO 201 at UIS & Life Science with Lab Gen.Ed. Requirement) | 4 |

|          |                                                                                                          |   |
|----------|----------------------------------------------------------------------------------------------------------|---|
| CHM 121^ | General College Chemistry I<br>(fulfills CHE 141 at UIS & Physical Science with Lab Gen.Ed. Requirement) | 4 |
|----------|----------------------------------------------------------------------------------------------------------|---|

**Total Hours this Semester: 17**

#### Second Oakton Coll. Semester Preferred Coursework (Spring)

|         |                             |   |
|---------|-----------------------------|---|
| MLT 113 | Immunohematology/Blood Bank | 4 |
| MLT 115 | Coagulation                 | 1 |
| MLT 117 | Immunology/Serology         | 1 |

|          |                                                                                                          |   |
|----------|----------------------------------------------------------------------------------------------------------|---|
| BIO 232^ | Human Anatomy and Physiology II<br>(fulfills BIO 202 at UIS & Life Science with Lab Gen.Ed. Requirement) | 4 |
|----------|----------------------------------------------------------------------------------------------------------|---|

|          |                                                       |   |
|----------|-------------------------------------------------------|---|
| BIO 251^ | Microbiology<br>(fulfills BIO 231 and BIO 232 at UIS) | 4 |
|----------|-------------------------------------------------------|---|

|          |                                                                                                           |   |
|----------|-----------------------------------------------------------------------------------------------------------|---|
| CHM 122^ | General College Chemistry II<br>(fulfills CHE 142 at UIS & Physical Science with Lab Gen.Ed. Requirement) | 4 |
|----------|-----------------------------------------------------------------------------------------------------------|---|

**Total Hours this Semester: 18**

#### Third Oakton Coll. Semester Preferred Coursework (Summer)

|         |                      |   |
|---------|----------------------|---|
| MLT 210 | Clinical Practicum I | 2 |
| MLT 215 | Clinical Chemistry   | 4 |

**Total Hours this Semester: 6**

#### Fourth Oakton Coll. Semester Preferred Coursework (Fall)

|         |                        |   |
|---------|------------------------|---|
| MLT 220 | Clinical Practicum II  | 2 |
| MLT 221 | Clinical Practicum III | 2 |
| MLT 225 | Medical Microbiology   | 4 |

|         |                                                                                        |   |
|---------|----------------------------------------------------------------------------------------|---|
| EGL 101 | Composition I<br>(fulfills ENG 102 at UIS & 1st of 2 Written Com. Gen.Ed. requirement) | 3 |
|---------|----------------------------------------------------------------------------------------|---|

Global Studies Elective Requirement

**Total Hours this Semester: 14**

#### Fifth Oakton Coll. Semester Preferred Coursework (Spring)

|         |                                     |   |
|---------|-------------------------------------|---|
| MLT 230 | Clinical Practicum IV               | 2 |
| MLT 231 | Clinical Practicum V                | 2 |
| MLT 235 | Applications In Laboratory Practice | 3 |

|         |                                                                                         |   |
|---------|-----------------------------------------------------------------------------------------|---|
| EGL 102 | Composition II<br>(fulfills ENG 102 at UIS & 2nd of 2 Written Com. Gen.Ed. requirement) | 3 |
|---------|-----------------------------------------------------------------------------------------|---|

**Total Hours this Semester: 10**

**Total Approximate Hours at Oakton College: 65**

## Medical Laboratory Science

### MLT to MLS Articulation (online and on campus)

### Bachelor of Science



# UNIVERSITY OF ILLINOIS SPRINGFIELD

| Course | Course Title | HRS |
|--------|--------------|-----|
|--------|--------------|-----|

#### First UIS Semester Preferred Coursework (Fall)

|         |                             |   |
|---------|-----------------------------|---|
| MLS 415 | Foundations of MLS          | 2 |
| MLS 425 | Laboratory Operations       | 2 |
| MLS 432 | Hematology I                | 3 |
| MLS 433 | Medical Microbiology I      | 4 |
| MLS 448 | Introduction to Immunology  | 3 |
| MLS 449 | Introductory Immunology Lab | 1 |

**Total Hours this Semester: 15**

#### Second UIS Semester Preferred Coursework (Spring)

|         |                        |   |
|---------|------------------------|---|
| MLS 434 | Clinical Chemistry I   | 4 |
| MLS 442 | Hematology II          | 4 |
| MLS 443 | Medical Microbiology I | 3 |
| MLS 468 | Immunohematology       | 4 |

**Total Hours this Semester: 15**

#### Third UIS Semester Preferred Coursework (Summer)

|         |                                          |   |
|---------|------------------------------------------|---|
| MLS 444 | Clinical Chemistry II                    | 3 |
| MLS 475 | Advanced Analysis in Laboratory Medicine | 2 |

Any U.S. Communities or Global Awareness ECCE

**Total Hours this Semester: 8**

#### Fourth UIS Semester Preferred Coursework (Fall)

|         |                       |   |
|---------|-----------------------|---|
| UNI 301 | ECCE – Speaker Series | 1 |
| MLS 477 | Molecular Diagnostics | 2 |
| MLS 487 | ECCE – Practicum I    | 6 |
| MLS 497 | Senior Seminar I      | 3 |

**Total Hours this Semester: 12**

#### Fifth UIS Semester Preferred Coursework (Spring)

|         |                          |   |
|---------|--------------------------|---|
| MLS 488 | ECCE – Practicum II      | 6 |
| MLS 496 | Special Topics Practicum | 3 |
| MLS 498 | Senior Seminar II        | 3 |

**Total Hours this Semester: 12**

**Total Approximate Hours UIS: 62**

[IAI Website to Find GECC courses](#)

[UIS Transferology Page](#)

[UIS GECC Information Page](#)

[Oakton General Education Information](#)

[Oakton College MLT Website Link](#)

[Oakton College MLT Courseload Link](#)

Below are the courses that are not fulfilled with the Oakton College curriculum and are required for BS in MLS completion at University of Illinois Springfield. These courses can be taken at Oakton College, UIS, or via CLEP exam (where possible). All below courses are required for BS completion, but do not need to be taken before completing the AAS at Oakton. See your advisors at Oakton College and UIS to find ways to work these courses into your curriculum path.

| UIS MLS Prerequisite Coursework for Bachelors Degree Completion |     |         |                      |                              |
|-----------------------------------------------------------------|-----|---------|----------------------|------------------------------|
| Course Title                                                    | HRS | Oakton  | UIS                  | CLEP                         |
| Organic Chemistry I with lab<br><u>or</u> Biochemistry with lab | 4   | CHM 221 | CHM 267 &<br>CHM 268 | N/A                          |
| General Biology I                                               | 4   | BIO 121 | BIO 141              | <a href="#">CLEP Biology</a> |
| Statistics                                                      | 3   | MAT 131 | MAT 121              | N/A                          |

| IAI General Education Core Curriculum Requirements for Bachelors Degree Completion |     |                                |                             |                                     |
|------------------------------------------------------------------------------------|-----|--------------------------------|-----------------------------|-------------------------------------|
| Course Title                                                                       | HRS | Oakton                         | UIS                         | CLEP                                |
| Oral Communication                                                                 | 3   | SPE 103                        | COM 112                     | N/A                                 |
| Humanities                                                                         | 3   | <a href="#">Oakton Website</a> | <a href="#">UIS Website</a> | N/A                                 |
| Fine Arts                                                                          | 3   |                                |                             | N/A                                 |
| Humanities/Fine Arts                                                               | 3   |                                |                             | N/A                                 |
| Social and Behavioral Science                                                      | 3   | <a href="#">Oakton Website</a> | <a href="#">UIS Website</a> | <a href="#">CLEP Options</a>        |
| Social and Behavioral Science                                                      | 3   |                                |                             | <a href="#">(History and Social</a> |
| Social and Behavioral Science                                                      | 3   |                                |                             | <a href="#">Sciences Section)</a>   |

| Oakton College and University of Illinois Springfield                                   |                                                                                    | MLT to<br>MLS<br>Articulation<br>Pathway:<br>(online &<br>on campus) |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|        |  |                                                                      |
| Associate in Applied Science: Medical Laboratory Technology from Oakton College         |                                                                                    |                                                                      |
| Bachelor of Science: Medical Laboratory Science from University of Illinois Springfield |                                                                                    |                                                                      |
| Step I: Associate in Applied Science - Oakton College                                   |                                                                                    |                                                                      |
| Oakton College Coursework                                                               | Translation to UIS Bachelors Degree Requirements                                   | Hours                                                                |
| First Semester at Oakton College (Preferred Coursework for the Fall Semester)           |                                                                                    |                                                                      |
| MLT 105 - Introduction to Health Care Issues                                            |                                                                                    | 1                                                                    |
| MLT 106 - Basic Skills in Medical Laboratory Technology                                 |                                                                                    | 2                                                                    |
| MLT 111 - Hematology                                                                    |                                                                                    | 4                                                                    |
| MLT 112 - Urinalysis and Bodily Fluids                                                  |                                                                                    | 2                                                                    |
| BIO 231 - Human Anatomy and Physiology I                                                | UIS BIO 201 & Life Science with Lab General Education Req.                         | 4                                                                    |
| CHM 121 - General College Chemistry I                                                   | UIS CHE 141 & Physical Science with Lab General Education Req.                     | 4                                                                    |
| Total Estimated Hours this Semester:                                                    |                                                                                    | 17                                                                   |
| Second Semester at Oakton College (Preferred Coursework for the Spring Semester)        |                                                                                    |                                                                      |
| MLT 113 - Immunohematology/Blood Bank                                                   |                                                                                    | 4                                                                    |
| MLT 115 - Coagulation                                                                   |                                                                                    | 1                                                                    |
| MLT 117 - Immunology/Serology                                                           |                                                                                    | 1                                                                    |
| BIO 232 - Human Anatomy and Physiology II                                               | UIS BIO 202 & Life Science with Lab General Education Req.                         | 4                                                                    |
| BIO 251 - Microbiology                                                                  | UIS BIO 231 and BIO 232                                                            | 4                                                                    |
| CHM 122 - General College Chemistry II                                                  | UIS CHE 142 & Physical Science with Lab General Education Req.                     | 4                                                                    |
| Total Estimated Hours this Semester:                                                    |                                                                                    | 18                                                                   |
| Third Semester at Oakton College (Preferred Coursework for the Summer Semester)         |                                                                                    |                                                                      |
| MLT 210 - Clinical Practicum I                                                          |                                                                                    | 2                                                                    |
| MLT 215 - Clinical Chemistry                                                            |                                                                                    | 4                                                                    |
| Total Estimated Hours this Semester:                                                    |                                                                                    | 6                                                                    |
| Fourth Semester at Oakton College (Preferred Coursework for the Fall Semester)          |                                                                                    |                                                                      |
| MLT 220 - Clinical Practicum II                                                         |                                                                                    | 2                                                                    |
| MLT 221 - Clinical Practicum III                                                        |                                                                                    | 2                                                                    |
| MLT 225 - Medical Microbiology                                                          |                                                                                    | 4                                                                    |
| EGL 101 - Composition I                                                                 | UIS ENG 101 & first of two Written Communication Gen. Eds                          | 3                                                                    |
| Global Studies Elective Requirement                                                     |                                                                                    | 3                                                                    |
| Total Estimated Hours this Semester:                                                    |                                                                                    | 14                                                                   |
| Fifth Semester at Oakton College (Preferred Coursework for the Spring Semester)         |                                                                                    |                                                                      |
| MLT 230 - Clinical Practicum IV                                                         |                                                                                    | 2                                                                    |
| MLT 231 - Clinical Practicum V                                                          |                                                                                    | 2                                                                    |
| MLT 235 - Applications In Laboratory Practice                                           |                                                                                    | 3                                                                    |
| EGL 102 - Composition II                                                                | UIS ENG 102 & second of two Written Communication Gen. Eds                         | 3                                                                    |
| Total Estimated Hours this Semester:                                                    |                                                                                    | 10                                                                   |
| Total Approximate Hours at Oakton College:                                              |                                                                                    | 65                                                                   |

[IAI Website to Find GECC courses](#)

[UIS Transferology Page](#)

[UIS GECC Information Page](#)

[Oakton General Education Information](#)

[Oakton College MLT Website Link](#)

[Oakton College MLT Courseload Link](#)

| Oakton College and University of Illinois Springfield MLT to MLS Articulation Pathway: (online & on campus) |            |
|-------------------------------------------------------------------------------------------------------------|------------|
| Step II: Bachelor of Science - University of Illinois Springfield                                           |            |
| University of Illinois Springfield Coursework                                                               | Hours      |
| First Semester at UIS (Preferred Coursework for the Fall Semester)                                          |            |
| MLS 415 - Foundations of MLS                                                                                | 2          |
| MLS 425 - Laboratory Operations                                                                             | 2          |
| MLS 432 - Hematology I                                                                                      | 3          |
| MLS 433 - Medical Microbiology I                                                                            | 4          |
| MLS 448 - Introduction to Immunology                                                                        | 3          |
| MLS 449 - Introductory Immunology Lab                                                                       | 1          |
| <b>Total Estimated Hours this Semester:</b>                                                                 | <b>15</b>  |
| Second Semester at UIS (Preferred Coursework for the Spring Semester)                                       |            |
| MLS 434 - Clinical Chemistry I                                                                              | 4          |
| MLS 442 - Hematology II                                                                                     | 4          |
| MLS 443 - Medical Microbiology I                                                                            | 3          |
| MLS 468 - Immunohematology                                                                                  | 4          |
| <b>Total Estimated Hours this Semester:</b>                                                                 | <b>15</b>  |
| Third Semester at UIS (Preferred Coursework for the Summer Semester)                                        |            |
| MLS 444 - Clinical Chemistry II                                                                             | 3          |
| MLS 475 - Advanced Analysis in Laboratory Medicine                                                          | 2          |
| Any U.S. Communities or Global Awareness ECCE                                                               | 3          |
| <b>Total Estimated Hours this Semester:</b>                                                                 | <b>8</b>   |
| Fourth Semester at UIS (Preferred Coursework for the Fall Semester)                                         |            |
| UNI 301 - ECCE – Speaker Series                                                                             | 1          |
| MLS 477 - Molecular Diagnostics                                                                             | 2          |
| MLS 487 - ECCE – Practicum I                                                                                | 6          |
| MLS 497 - Senior Seminar I                                                                                  | 3          |
| <b>Total Estimated Hours this Semester:</b>                                                                 | <b>12</b>  |
| Fifth Semester at UIS (Preferred Coursework for the Spring Semester)                                        |            |
| MLS 488 - ECCE – Practicum II                                                                               | 6          |
| MLS 496 - Special Topics Practicum                                                                          | 3          |
| MLS 498 - Senior Seminar II                                                                                 | 3          |
| <b>Total Estimated Hours this Semester:</b>                                                                 | <b>12</b>  |
| <b>Total Approximate Hours UIS:</b>                                                                         | <b>62</b>  |
| <b>Total Approximate Hours Oakton College &amp; UIS for AAS and BS:</b>                                     | <b>127</b> |

Below are the courses that are not fulfilled with the Oakton College curriculum & are required for BS in MLS completion at UIS. These courses can be taken at Oakton College, UIS, or via CLEP exam (if possible). All of the below are required for BS completion, but do not need to be taken before completing the AAS at Oakton. See advisors at Oakton College/UIS to work these courses into your curriculum path.

| UIS MLS Prerequisite Coursework for Bachelors Degree Completion                         |                                |                             |                         |
|-----------------------------------------------------------------------------------------|--------------------------------|-----------------------------|-------------------------|
| Course Title with (Hours)                                                               | Oakton Course Title            | UIS Course Title(s)         | CLEP                    |
| Organic Chemistry I with lab (4)<br>or Biochemistry with lab (4)                        | CHM 221                        | CHM 267 &<br>CHM 268        | N/A                     |
| General Biology I (4)                                                                   | BIO 121                        | BIO 141                     | <a href="#">Biology</a> |
| Statistics (3)                                                                          | MAT 131                        | MAT 121                     | N/A                     |
| IAI General Education Core Curriculum Requirements for Bachelors Degree Completion      |                                |                             |                         |
| Course Title with (Hours)                                                               | Oakton Course Title            | UIS Course Title(s)         | CLEP                    |
| Oral Communication (3)                                                                  | SPE 103                        | COM 112                     | N/A                     |
| Three total Humanities & Fine Arts Courses<br>At Least One of Each Type                 | <a href="#">Oakton Website</a> | <a href="#">UIS Website</a> | N/A                     |
| Three total Social & Behavioral Science Courses<br>At Least Two different content areas | <a href="#">Oakton Website</a> | <a href="#">UIS Website</a> | <a href="#">CLEP</a>    |